# AMENDMENT UNDER 37 C.F.R. § 1.114(c) U.S. Application No. 10/553,196 (Q89903)

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

#### **LISTING OF CLAIMS:**

- 1. (previously presented) A titania nanotube having a length of 10 μm or more.
- 2. (original) The titania nanotube according to Claim 1 the diameter is 0.1  $\mu m$  or less.
- 3. (original) The titania nanotube according to Claim 1 or 2 wherein the aspect ratio is 100 or more.
- 4. (previously presented) A sensor having the titania nanotube according to Claim 1 or 2 and an electrode in which the titania nanotube and the electrode are connected.
- 5. (previously presented) A method for producing the titania nanotube of Claim 1, comprising a step of dispersing a titania powder in a sodium hydroxide aqueous solution at a temperature of 60°C or more.
- 6. (original) The method according to Claim 5 wherein the titania powder has an average particle diameter of 50 nm or less.

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- 7. (original) The method according to Claim 5 or 6 wherein the amount of the titania powder is 0.01 part by weight or more and 0.1 part by weight or less based on 100 parts by weight of a sodium hydroxide aqueous solution.
- 8. (previously presented) The method according to Claim 5 or 6, wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 1 M or more and 15 M or less.
- 9. (original) The method according to Claim 8 wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 3 M or more and 13 M or less.
- 10. (original) The method according to Claim 9 wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 7 M or more and 12 M or less.
- 11. (previously presented) The method according to Claim 5, wherein dispersion is conducted at 90°C or more and 120°C or less.
- 12. (previously presented) The method according to Claim 5, wherein dispersion is conducted by stirring or irradiation with an ultrasonics.
- 13. (original) The method according to Claim 12 wherein dispersion is conducted by stirring.

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- 14. (previously presented) A sensor having the titania nanotube according to Claim 3 and an electrode in which the titania nanotube and the electrode are connected.
- 15. (previously presented) The method according to Claim 7, wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 1 M or more and 15 M or less.
- 16. (new) The titania nanotube according to Claim 1 having a length of 10 mm or less.